

REMARKS

In the Office Action mailed October 23, 2003, claims 1, 2, and 6 were rejected under 35 USC 103(a) as being unpatentable over Ghori (U.S. Patent No. 6,282,714-B1) in view of Hamalainen (U.S. Patent No. 5,729,541) and Maillet (U.S. Patent No. 3,649,764); claim 3 was rejected under 35 USC 103(a) as being unpatentable over Ghori in view of Hamalainen and Maillet and in further view of Spaur (U.S. Patent No. 5,732,074); claims 4, 5, 7, and 8 were rejected under 35 USC 103(a) as being unpatentable over Ghori in view of Hamalainen and Maillet and further view of Spaur and Chang (U.S. Patent No. 5,974,449); claims 10, 11, and 15 were rejected under 35 USC 103(a) as being unpatentable over Ghori in view of Hamalainen to Maillet and Lange (U.S. Patent No. 4,555,806); claim 16 was rejected under 35 USC 103(a) as being unpatentable over Ghori in view of Hamalainen, Lange and Maillet and in further view of Chang; claim 12 was rejected under 35 USC 103(a) as being unpatentable over Ghori in view of Hamalainen, Maillet and Lange and in further view of Spaur; claims 13 and 14 were rejected under 35 USC 103(a) as being unpatentable over Ghori in view of Hamalainen and Lange and in further view of Spaur; claim 17 was rejected under 35 USC 103(a) as being unpatentable over Ghori in view of Hamalainen, Maillet and Lange and in further view of Spaur. The foregoing rejections are respectfully traversed.

In accordance with the foregoing, claims 1, 4, 6, 10, 13, and 15 are amended. New claims 18-20 are added. No new matter is presented.

Claims 1-8 and 10-20 are pending and under consideration.

Ghori discusses a receiver receiving a degraded signal through a link because the received signal is composed of a number of signals that correspond to the same transmitted signal but reach the receiver through a variety of paths. That is, such a link does not offer protection against signal degradation due to the multi-path phenomena (column 2, lines 16-24 of Ghori). To solve the above problem of the prior art, Ghori discusses a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals (column 7, lines 14-15 of Ghori). This distribution pattern is based on either direct sequence coding or frequency hopping. In frequency hopping, a transmitter transmits at a particular frequency for a short time interval, then switches to another frequency for another short interval, and so on. Only the receiver knows the random frequency selection sequencing (column 7, lines 20-32 of Ghori).

Hamalainen relates to a TDMA (time division multiple access) system (refer to the

Abstract, col. 3, lines 24-37, col. 4, lines 64-67). Moreover, Hamalainen in cols. 7-9 discloses a bit map based upon a random number generated regarding channels and packed data.

Maillet discusses a variable burst length time division multiple-access communication system using a satellite transponder and a variety of earth stations.

The Examiner newly-relies upon Maillet as discussing a TDMA system in which bursts are automatically assigned to the lowest-numbered channel which is available (the Examiner relies upon col. 2, at line 74 through col. 3 at line 30, and on col. 4 at lines 55-66 of Maillet).

Maillet, col. 3 at lines 29 - 30, defines the lowest-numbered channel as "the available channel closest to the beginning of the burst".

Moreover, the abstract of Maillet indicates that Maillet is applicable to a time-division multiple-access communications system using "a satellite transponder and a plurality of earth stations, each earth station periodically transmits bursts of data which are timed so that the bursts from the earth stations in the system interleave and do not overlap in time when received at the satellite", and "each burst is subdivided into time slots or channels", and these channels are reallocated among the operating stations in a frame.

In contrast to Maillet, which is directed to satellite technology and channels which are based upon time division, the present invention is directed to a local area information network which receives broadcasted information within a local area using channels which imply a bandwidth defined per frequency of the broadcasting within the local are (refer to the fourth paragraph beginning on page 3 of the present specification).

Spaur discloses a mobile wireless communication system used with the Internet. Spaur is directed to communication of information between a remote computer and a vehicle (refer to the abstract of Spaur).

Chang discusses a system transmitting messages from a number of different platforms, sending e-mail messages over the internet or intranet using the IP protocol, resolving the domain name of the e-mail address to a mail server, and transmitting the e-mail to the mail server, allowing the user to login to the mail server using a permanent or temporary IP address.

Lange discusses a transmitter receiver pair scanning a number of channels to see which channels are free, and displaying the free channels on a CRT (col. 1, lines 21-59, and col. 4 and col. 5). Lange, in contrast to the present invention, as disclosed in cols. 1, 4, 5, and 6, evaluates channels based upon channel quality "before beginning the establishment of a connection" (Lange, col. 5, at lines 17-20), then selects the channel based upon the channel which has

registered the best quality (col. 6, lines 7-13).

The combination of Ghorl, Hamalainen, and Maillet would be a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals, in a TDMA system, and, more particularly, a variable burst length time division multiple-access communication system using a satellite transponder and a variety of earth stations.

The combination of Ghorl, Hamalainen, Maillet, and Spaur would be a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals in which a mobile wireless communication system is involved, in a TDMA system, and, more particularly, a variable burst length time division multiple-access communication system using a satellite transponder and a variety of earth stations.

The combination of Ghorl, Hamalainen, Maillet, Chang, and Spaur would be a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals in which a mobile wireless communication system is involved, in a TDMA system, and, more particularly, a variable burst length time division multiple-access communication system using a satellite transponder and a variety of earth stations, in a system transmitting e-mail.

The combination of Ghorl, Hamalainen, Maillet, and Lange would be a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals, in a TDMA system, and, more particularly, a variable burst length time division multiple-access communication system using a satellite transponder and a variety of earth stations, which displays free channels on a CRT.

The combination of Ghorl, Hamalainen, Maillet, Spaur, and Lange would be a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals, in a TDMA system, and, more particularly, a variable burst length time division multiple-access communication system using a satellite transponder and a variety of earth stations, which displays free channels on a CRT, in a mobile wireless communication system.

The combination of Ghorl, Hamalainen, Spaur, and Lange would be a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals, in a TDMA system, which displays free channels on a CRT, in a mobile wireless communication system.

The combination of Ghorl, Hamalainen, Maillet, Lange, and Chang would be a spread spectrum transceiver utilizing spread spectrum modulation to modulate signals, in a TDMA system and, more particularly, a variable burst length time division multiple-access communication system using a satellite transponder and a variety of earth stations, which

displays free channels on a CRT, in a system transmitting e-mail messages.

Each of independent claims 1, 4, 6, 10, and 15 of the present application recites (using the recitation of claim 1 as an example) a "local area information terminal" transmitting a file as "broadcasting data"..."to within a local area network" via a selected channel, wherein "the channel comprises a bandwidth defined per frequency of the broadcasting" (or "transmitting" (as recited in claims 4, 6, 10, and 15).

In contrast to the foregoing references relied upon, as recited in claim 13 of the present application, the present invention broadcasts data within a local area. More particularly, independent claim 13 of the present application recites a "local area information terminal selectively receiving broadcasting information", wherein "the broadcasting is within the local area".

Moreover, dependent claims 2, 3, 5, 7, 8, 11, 12, 14, 16, and 17 recite patentably distinguishing features of their own. For example, claim 2/1 recites "a cipher processing unit, wherein the file read from said file storing unit is encrypted by said cipher processing unit and thereafter transmitted from said transmitting unit".

Withdrawal of the foregoing rejections is respectfully requested.

New claims 18-20 are added. New claims 18-20 recite a "local area information terminal" comprising "a channel display controlling unit controlling a display based on a judging result obtained by the channel retrieving unit".

Moreover, new claim 18 recites "a channel retrieving unit retrieving a free channel from among broadcasting channels allocated to respective frequency bandwidths and judging whether the free channel exists or not".

In addition, new claim 19 recites "'a channel retrieving unit retrieving a channel through which the broadcasting data can be received and judging whether an on-broadcasting channel exists or not".

Further, new claim 20 recites "a channel retrieving unit retrieving a free channel among broadcasting channels allocated to respective frequency bandwidths and judging whether the free channels exists or not".

Allowance of new claims 18-20 is respectfully requested.

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

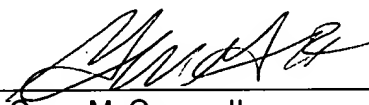
Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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